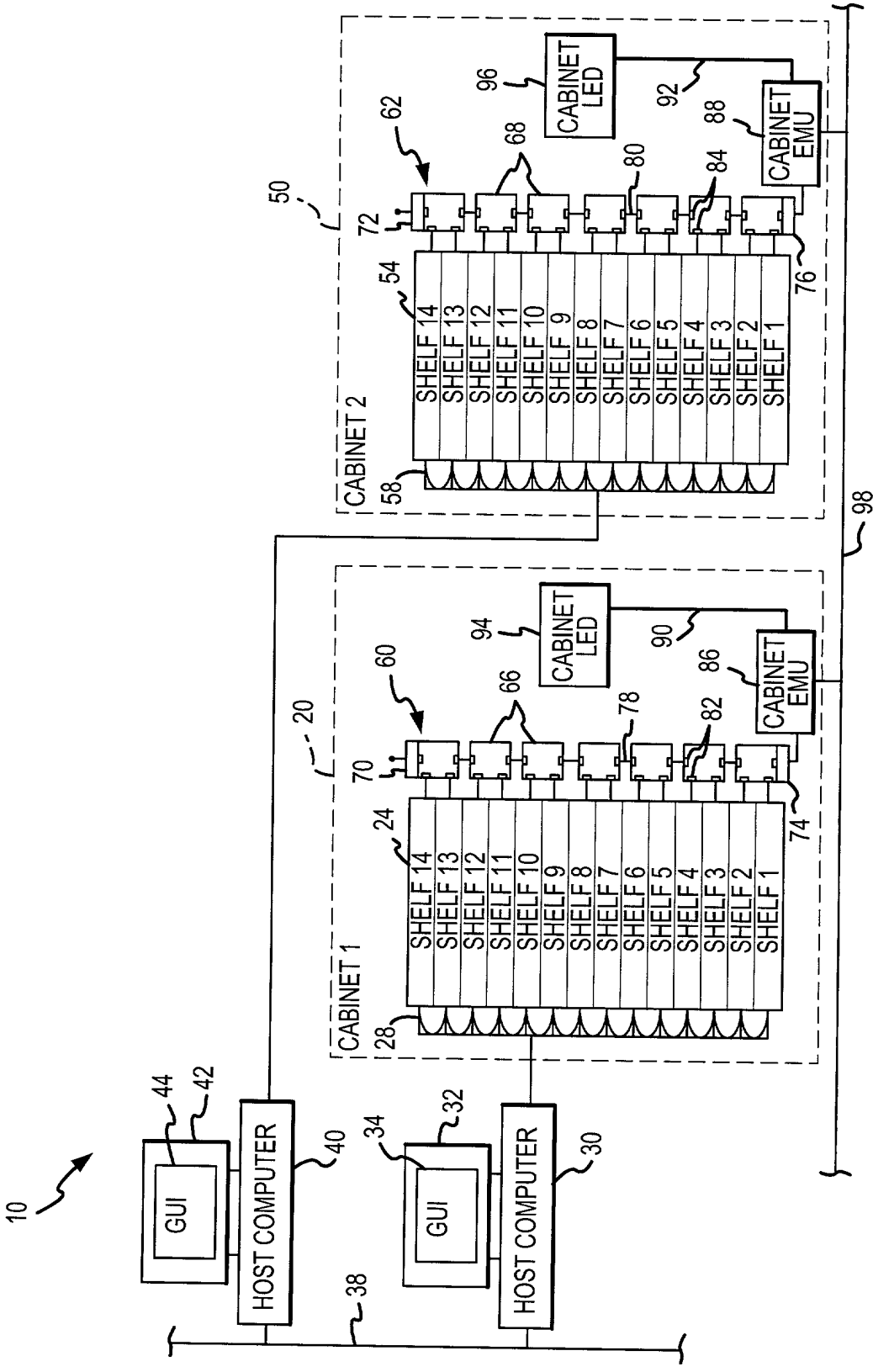
10
GUI
HOST COMPUTER
GUI
HOST COMPUTER
CABINET 1
CABINET 2
SHELF 14
SHELF 13
SHELF 12
SHELF 11
SHELF 10
SHELF 9
SHELF 8
SHELF 7
SHELF 6
SHELF 5
SHELF 4
SHELF 3
SHELF 2
SHELF 1
CABINET LED
CABINET EMU
CABINET LED
CABINET EMU
20
24
28
30
32
34
38
40
42
44
50
54
58
60
62
66
68
70
72
74
76
78
80
82
84
86
88
90
92
94
96
98

FIG.1

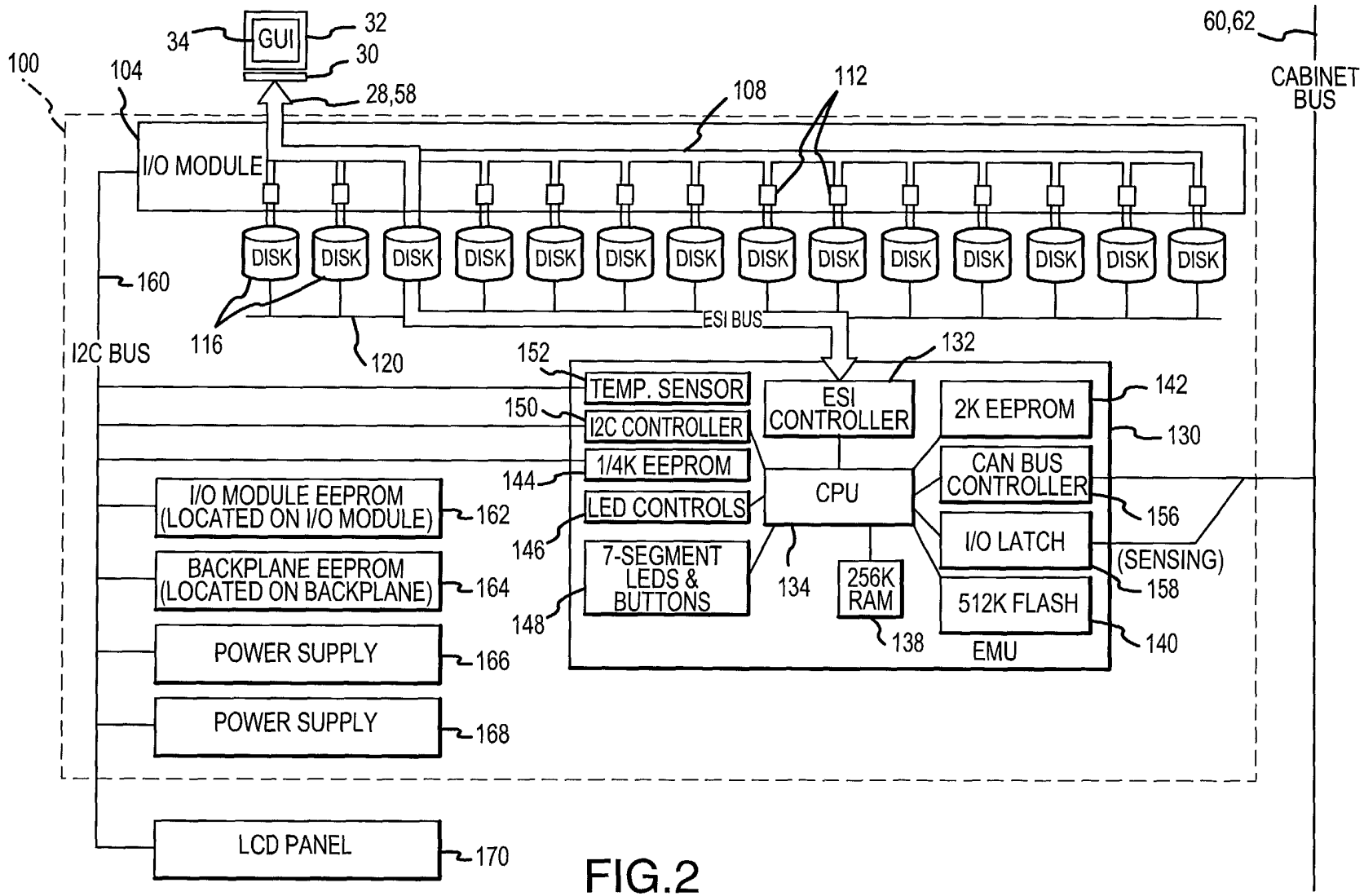
100
104
34
GUI
32
30
28,58
60,62
CABINET BUS
108
112
I/O MODULE
DISK
160
I2C BUS
116
120
ESI BUS
152
132
TEMP. SENSOR
ESI CONTROLLER
2K EEPROM
142
150
I2C CONTROLLER
130
1/4K EEPROM
CAN BUS CONTROLLER
144
CPU
156
I/O MODULE EEPROM (LOCATED ON I/O MODULE)
162
LED CONTROLS
I/O LATCH
(SENSING)
146
BACKPLANE EEPROM (LOCATED ON BACKPLANE)
164
7-SEGMENT LEDS & BUTTONS
134
256K RAM
158
512K FLASH
148
138
140
EMU
POWER SUPPLY
166
POWER SUPPLY
168
LCD PANEL
170

FIG.2

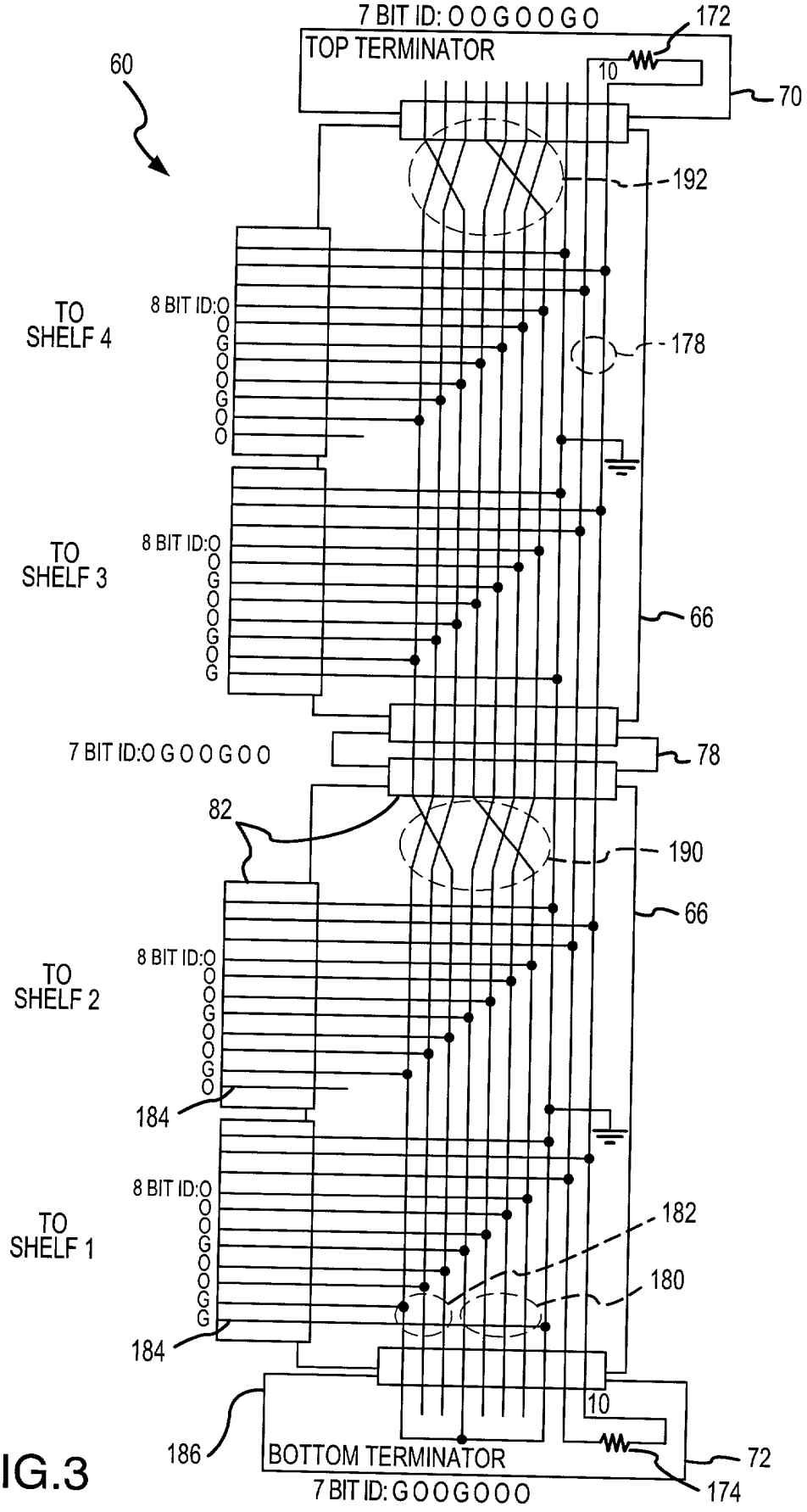
7 BIT ID: O O G O O G O
172
TOP TERMINATOR
10
70
60
192
TO SHELF 4
8 BIT ID:O O G O O O G O O
178
TO SHELF 3
8 BIT ID:O O G O O O G O G
66
7 BIT ID:O G O O G O O
78
82
190
66
TO SHELF 2
8 BIT ID:O O O G O O O G O
184
TO SHELF 1
8 BIT ID:O O O G O O O G G
182
180
184
10
186
BOTTOM TERMINATOR
72
7 BIT ID: G O O G O O O
174

FIG.3

SHELF ID	BITS 7..4	BITS 3..1	BIT 0
1	1110	110	0
2	1110	110	1
3	1101	101	0
4	1101	101	1
5	1011	011	0
6	1011	011	1
7	0111	110	0
8	0111	110	1
9	1110	101	0
10	1110	101	1
11	1101	011	0
12	1101	011	1
13	1011	110	0
14	1011	110	1
15	0111	101	0
16	0111	101	1
17	1110	011	0
18	1110	011	1
19	1101	110	0
20	1101	110	1
21	1011	101	0
22	1011	101	1
23	0111	011	0
24	0111	011	1
CABINET CABLE DISCONNECTED	1111	XXX	X
CABINET CABLE DISCONNECTED	XXXX	111	X

FIG.4

SHELF ID	BITS 7-4	BITS 3-1	BIT 0
1	0100	010	0
2	0100	010	1
3	0010	001	0
4	0010	001	1
5	0001	100	0
6	0001	100	1
7	1000	010	0
8	1000	010	1
9	0100	001	0
10	0100	001	1
11	0010	100	0
12	0010	100	1
13	0001	010	0
14	0001	010	1
15	1000	001	0
16	1000	001	1
17	0100	100	0
18	0100	100	1
19	0010	010	0
20	0010	010	1
21	0001	001	0
22	0001	001	1
23	1000	100	0
24	1000	100	1
25	1100	110	0
26	1100	110	1
27	0110	011	0
28	0110	011	1
29	0011	101	0
30	0011	101	1
31	1001	110	0
32	1001	110	1
33	1100	011	0
34	1100	011	1
35	0110	101	0
36	0110	101	1
37	0011	110	0
38	0011	110	1
39	1001	011	0
40	1001	011	1
41	1100	101	0
42	1100	101	1
43	0110	110	0
44	0110	110	1
45	0011	011	0
46	0011	011	1
47	1001	101	0
48	1001	101	1
CABINET CABLE DISCONNECTED	1111	XXX	X
CABINET CABLE DISCONNECTED	XXXX	111	X

FIG.5